



Summer Low Flows in Western Oregon: Processes, Trends, Uncertainties, and Management Implications

April 4, 2018

***Corvallis Forestry Sciences Lab, Room 20,
Corvallis, OR***

*Organized by the Pacific Northwest Research
Station, the Bureau of Land Management,
Weyerhaeuser Company, and National Council
for Stream and Air Improvement*

Workshop Goal: Explore the current science of summer low stream flows in western Oregon, identify/prioritize gaps in our knowledge on the topic, and consider management implications of the issue.

Target Audience: Forest managers of state, private, and federal lands interested in furthering their understanding of low summer flow processes and trends and being part of a dialogue on management implications.

Location: Corvallis Forestry Sciences Lab, 3200 SW Jefferson Way, Corvallis, OR

Please RSVP to: cfriesen@fs.fed.us by March 15, 2018

AGENDA

Time	Topic	Speaker
9:00 - 9:05	Welcome! Outline of the day	<i>Cheryl Friesen, Science Liaison, USFS</i>
9:05 – 9:15	Setting the Stage: The meaning and use of “Best Available Science” – what makes stream flow an issue?	<i>Mike Brown, Soil, Water & Air Program Lead, BLM Oregon State Office, and Johan Hogervorst, Hydrologist, Willamette NF Forest</i>

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AGENDA CONTINUED

Time	Topic	Speaker
9:15 – 9:25	Introduction to summer low flows: organizing principles and terminology.	Maryanne Reiter , Hydrologist, Weyerhaeuser Co.
9:25 – 9:45	Climate change projections and potential effects on stream flow.	Kathie Dello , Associate Director, Oregon Climate Change Research Institute
9:45 – 10:05	How forest management influences interaction between vegetation and water.	Klaus Puettmann , Silviculturist, OSU
10:05 – 10:25	Evapotranspiration variability across dominant ecosystems in the PNW.	Hyojung Kwon , Research Associate, OSU
10:25 – 10:40	Break	
10:40 – 11:00	Subsurface flow paths and low summer flows: influence of channel geomorphology.	Steve Wondzell , Research Ecologist, PNW Research Station
11:00 – 11:30	Streamflow trends from long term data in the Western Cascades.	Julia Jones , Geography Professor, Oregon State University
11:30 – 12:00	Streamflow trends from long term data in the Coast Range, northern California.	Elizabeth Keppeler , Hydrologist, USFS Pacific Southwest Research Station
12:00 – 12:30	Lunch: bring donation for catered pizza OR bring your own food.	
12:30 – 12:50	Effects of drought and regional low flows.	Charlie Luce , Research Hydrologist, Rocky Mountain Research Station
12:50 – 1:10	Biological response to low stream flows.	Brooke Penaluna , Research Fisheries Biologist, PNW Research Station
1:10 – 1:30	Revisiting the water budget and forest management: overview of questions posed by managers (<i>we will be asking folks that RSVP to send questions in advance</i>).	Sherri Johnson , Research Ecologist, PNW Research Station
1:30 – 3:30	Facilitated discussion on using the best available science on summer low flows to link processes, issues of scale, uncertainties, data gaps, and management implications.	Cheryl Friesen , Science Liaison and Ashley Coble , NCASI